

In the Claims:

Please cancel claims 1-92 without prejudice. Applicants reserve the right to pursue the subject matter of these claims in a related application to be filed at Applicants' discretion.

Please add the following claims:

93. (New) A method of treating a patient, comprising:
- (a) providing a tissue removal system;
 - (b) removing adipose tissue from a patient using the tissue removal system, the adipose tissue having a concentration of stem cells;
 - (c) processing at least a part of the adipose tissue to obtain a concentration of stem cells other than the concentration of stem cells of the adipose tissue before processing;
 - (d) cooling the stem cells obtained from the adipose tissue; and
 - (e) administering the stem cells to a patient without removing the stem cells from the tissue removal system before being administered to the patient.
94. (New) The method as set forth in claim 93, further comprising
- (f) removing a portion of the stem cells obtained from the adipose tissue from the tissue removal system; and
 - (g) preserving the portion of stem cells removed from the tissue removal system.
95. (New) The method as set forth in claim 94, wherein (g) comprises cryopreserving the portion of stem cells removed from the system.
96. (New) The method as set forth in claim 93, further comprising (f) cryopreserving at least one portion of adipose tissue and processing the adipose tissue to obtain an increased concentration of stem cells.